

ECS Configuration Change Request

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1. Originator Byron V. Peters	2. Log Date: 05/22/03	3. CCR #: 03-0368	4. Rev: —	5. Tel: 301/883-4077	6. Rm #: 2013	7. Dept. SE
8. CCR Title: Test F-Secure SSH version 3.2 in the functionality lab and on p0icg01						
9. Originator Signature/Date Byron V. Peters /s/ 05/22/03			10. Class IN	11. Type: CCR	12. Need Date: 5/27/03	
13. Office Manager Signature/Date Carolyn Whitaker /s/ 05/22/03			14. Category of Change: Initial ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 27). Emergency	
16. Documentation/Drawings Impacted (Review and submit checklist): Provided with PSR			17. Schedule Impact:		18. CI(s) Affected:	
19. Release Affected by this Change: 6A		20. Date due to Customer:		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: ECSed37486						
23. Problem: (use additional Sheets if necessary) SSHv1 has been replaced by SSHv2 and needs to be removed from each system as it is a potential security vulnerability. SSH 2.4 has recently been revealed to have a potential security hole that should be fixed and the SSH 3.1 replacement has other bug fixes and improvements that should be implemented.						
24. Proposed Solution: (use additional sheets if necessary) IRIX 6.5 and Solaris 8 packages have been generated and need to go through the standard testing and implementation regimen. The ssh32.tar.gz file is on lemmings. Note that this testing cycle may require several iterations where new versions are first tested in the IDG cell and then tested in the functionality lab. In order to facilitate the testing of ECS custom code, the most recent IRIX version needs to be installed/tested on p0icg01 as soon as possible.						
25. Alternate Solution: (use additional sheets if necessary) N/A						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) Potential security vulnerabilities could compromise ECS.						
27. Justification for Emergency (If Block 15 is "Emergency"): Custom code verification in the PVC is required as soon as practical. Also, the DAACs need this release as soon as possible and this testing is needed to facilitate the implementation.						
28. Site(s) Affected: <input checked="" type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input checked="" type="checkbox"/> Other functionality lab						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. EDF/SCDV CCB Chair (Sign/Date): Kevin Lange /s/ 05/22/03 Byron V. Peters /s/ 05/22/03			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
33. M&O CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

ADDITIONAL SHEET

CCR #: 03-0368 **Rev:** — **Originator:** Byron V. Peters

Telephone: 301/883-4077 **Office:** 2013

Title of Change: Test F-Secure SSH version 3.2 in the functionality lab and on p0icg01

SSH 3.2 Preliminary Installation Instructions

Sun installation:

Approximate installation time for average systems administrator per host: 15 minutes

Space required: 75MB for install 0-10MB in operations

No reboot is required.

1. Login to host as root or su to root.
2. Copy the ssh32.tar.gz file to /tmp or other convenient location (net/admin?).
3. Change directory to that location. For example:
cd /tmp □
4. Explode the file using the command:
gzip -dc ssh32.tar.gz | tar -xvf - □
5. Change directory to the ssh32 install directory using the command:
cd ssh32 □
6. Explode the Sun tarfile using the command:
tar -xvf ssh32.sunpkg.tar □
7. Backup the existing files using the command:
cpssh.sh □

NOTE: By default, this puts all the files in /tmp/bssh and creates a tar file /tmp/<hostname>.bssh24.tar
Recommend backing up the tar file to somewhere else in the event of a problem.

8. Verify that the system has the old versions of ssh using the command:
pkginfo | grep ssh □

If the response is positive, do step 9. Otherwise skip to step 10.

9. Remove the old packages using the command:
pkgrm ssh21 □
(answer "y" to any questions asked)
...
pkgrm ssh20 □
(answer "y" to any questions asked)
...

NOTE: If either package fails to be removed, note the error. If it is a file missing, copy the file from the backup you made in /tmp/bssh

10. Install the new TCP Wrappers package using the command:
pkgadd -d /tmp/ssh32 tcpw76 □
(answer "y" to and questions asked)
...

11. Install the new ssh package:
pkgadd -d /tmp/ssh32 fssh32 □
(answer "y" to any questions asked)
...

12. Edit /etc/ssh2/ssh2_config to uncomment the appropriate lines for SocksServer (not needed for EDF)
DefaultDomain

13. Edit /etc/ssh2/sshd2_config to uncomment the appropriate line for:
AllowSHosts

14. After editing, restart the daemon using the command:
/etc/init.d/sshd2 restart □

15. Remove the install directory as required.
rm -rf /tmp/ssh32 □

16. If desired, you may turn on log rotation using the commands:
/usr/local/sbin/ssh.log_rot □
/usr/local/sbin/wrap.log_rot □

17. Logoff from root and login as a normal user.

18. Do some quick checks to verify that the install such as:
% ps -ef | grep sshd2 □ (should show at least one process spawned recently by PID 1)
% ssh2 <differenthost> □
% scp2 localtestfile remotehost: □

19. Logoff.
SGI Installation:
Approximate installation time for average systems administrator per host: 15 minutes
Space required: 75MB for install 0-10MB in operations
No reboot is required.

1. Login to host as root or su to root.
2. Copy the ssh32.tar file to /tmp or other convenient location (net/admin?).
3. Change directory to that location. For example:
cd /tmp □

4. Explode the file using the command:
gzip -dc ssh32.tar.gz | tar -xvf - □

5. Change directory to the ssh32 install directory using the command:
cd ssh32 □

6. Explode the SGI tarfile using the command:
tar -xvf ssh32+.sgiinst.tar □

7. Backup the existing files using the command:
cpssh.sh □

NOTE: By default, this puts all the files in /tmp/bssh and creates a tar file /tmp/<hostname>.bssh24.tar
Recommend backing up the tar file to somewhere else in the event of a problem.

8. Verify that the system has the old versions of ssh using the command:
versions | grep ssh □

If the response is positive, do step 9. Otherwise skip to step 10.

9. Remove the old packages using the commands:
versions remove ssh21 □
versions remove ssh20 □

NOTE: If either package fails to be removed, note the error. If it is a file missing, copy the file from the backup you made in /tmp/bssh.

10. Change directory to the sgi install directory
cd sgi □

NOTE: this should put you in /tmp/ssh32/sgi

11. Install the new package:
inst □

```
inst> from ☐  
inst> . ☐  
inst> step ☐  
(make sure there are "i"s next to each of the fssh32 and tcpw76 modules)  
inst> go ☐  
(answer yes to any questions asked. There should be no conflicts...)  
inst> quit ☐
```

12. Edit /etc/ssh2/ssh2_config to uncomment the appropriate lines for
SocksServer (not needed for EDF)
DefaultDomain

13. Edit /etc/ssh2/sshd2_config to uncomment the appropriate line for:
AllowSHosts

14. If you had to change the AllowSHosts line, restart the server using the command:
/etc/init.d/sshd2 restart ☐

15. Remove the install directory as required.
rm -rf /tmp/ssh32 ☐

16. If desired, you may turn on log rotation using the commands:
/usr/local/sbin/ssh.log_rot ☐
/usr/local/sbin/wrap.log_rot ☐

17. Logoff as root and login as a normal user.

18. Do some quick checks to verify that the install such as:
% ps -ef | grep sshd2 ☐ (should show at least one process spawned recently by PID 1)
% ssh2 <differenthost> ☐
% scp2 localtestfile remotehost: ☐

19. Logoff